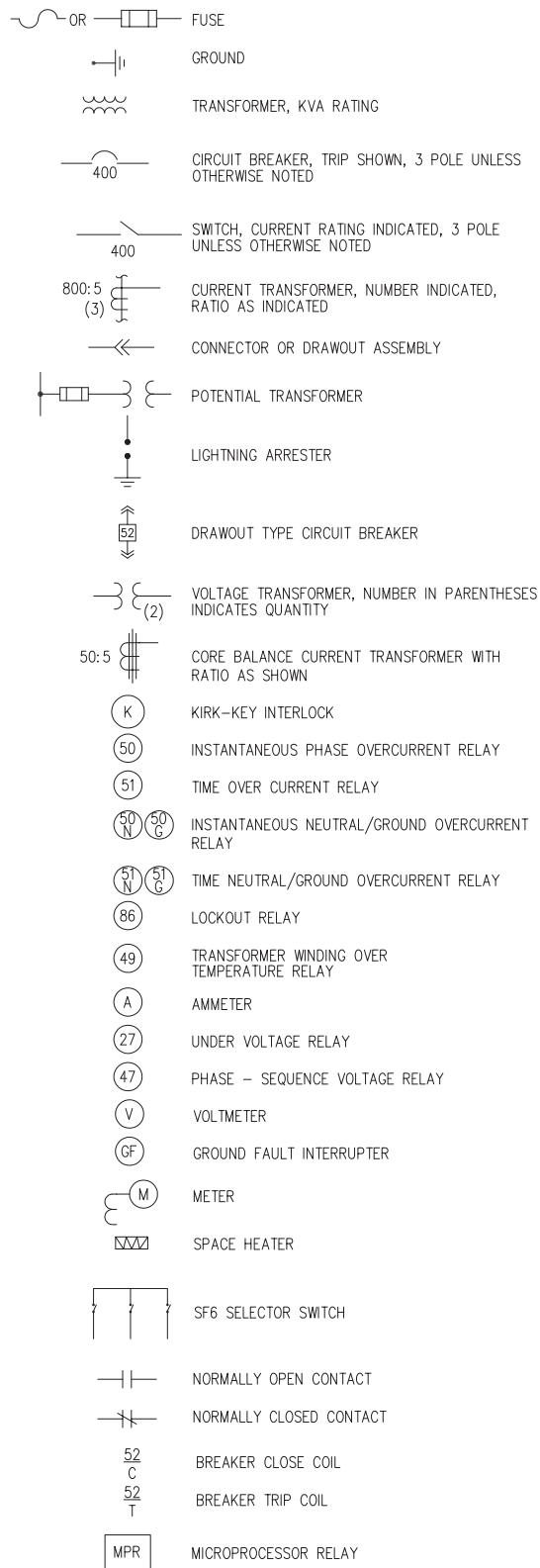


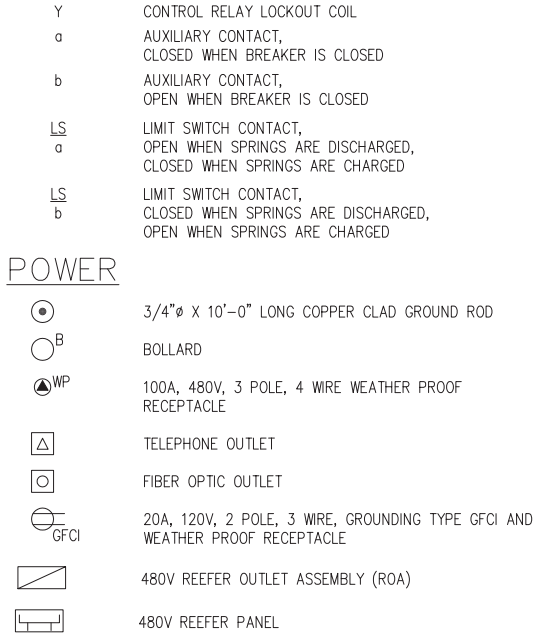
APPENDIX N

**AVAILABLE DRAWINGS OF ELECTRICAL DREDGE
SUBSTATION**

ONE-LINE DIAGRAM

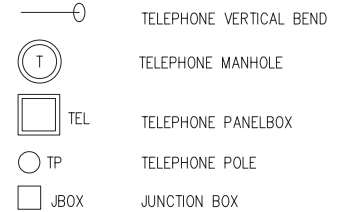


ONE-LINE DIAGRAM - CONT'D.

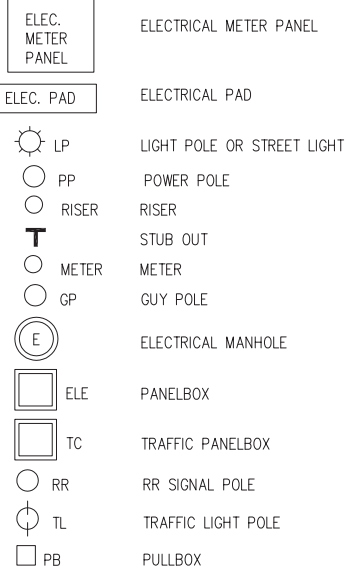


POWER

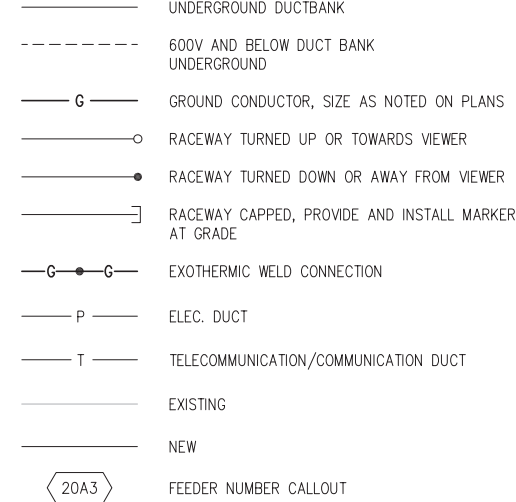
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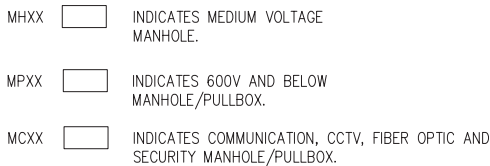
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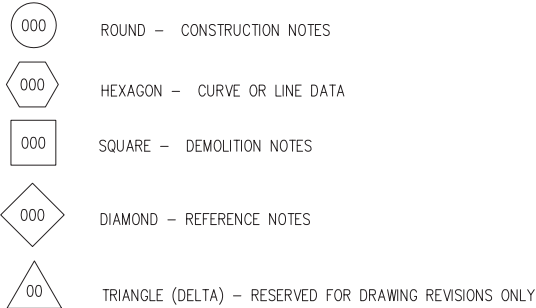
CONDUIT AND RACEWAY



MANHOLE/PULL BOX IDENTIFICATION



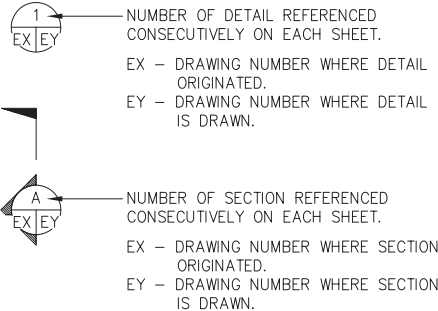
MARKERS STD. SHAPES (BALLOONS)



REEFER DUCTBANK SET



REFERENCE SYMBOLS



ELECTRICAL ABBREVIATIONS

A	AMMETER, AMPERE
ABAN	ABANDONED
AF	AMPERE FRAME
AFG	ABOVE FINISHED GRADE
AT	AMPERE TRIP
BFG	BELOW FINISHED GRADE
C	CONDUIT, CLOSE
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CLF	CURRENT LIMITING FUSE
CO	CONDUIT ONLY
CP	CONTROL PANEL
CPT	CONTROL POWER TRANSFORMER
CR	CONTROL RELAY
CRS	PVC COATED RIGID STEEL CONDUIT
CS	CONTROL SWITCH
CSS	CRANE SUBSTATION
CSS1-M1	MAIN BREAKER (NUMBER) AT CRANE SUBSTATION (NUMBER)
CSS1-T1/2	TIE BREAKER (NUMBER) AT CRANE SUBSTATION (NUMBER)
CSS1-F1	FEEDER (NUMBER) AT CRANE SUBSTATION (NUMBER)
CT	CURRENT TRANSFORMER
CU	COPPER
DIA	DIAMETER
DN	DOWN
DWG	DRAWING
(E)	EXISTING
ELEC	ELECTRICAL
ELEV	ELEVATION
EMT	ELECTRICAL METALLIC TUBING
F,FU	FUSE
FDR	FEEDER
G,GND,GRD	GROUND
GA	GAUGE
GRS	GALVANIZED RIGID STEEL
GTE	GENERAL TELEPHONE AND ELECTRONICS
J,B	JUNCTION BOX
KVA	KILOVOLT AMPERE(S)
KVAR	KILOVAR(S)
KW	KILOWATT(S)
LP	LIGHTING POLE
LV	LOW VOLTAGE
MTS	MAIN TERMINAL SUBSTATION
MTS-F1	FEEDER (NUMBER) AT MTS
MTS-M1	MAIN BREAKER (NUMBER) AT MTS
MTS-T1	TIE BREAKER (NUMBER) AT MTS
MV	MEDIUM VOLTAGE
(N)	NEW
NEUT	NEUTRAL
NIC	NOT IN CONTRACT
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
OD	OUTSIDE DIAMETER
OLTC	ON LINE TAP CHANGER
P,PNL	PANEL
PH,Ø	PHASE
POLB	PORT OF LONG BEACH
PQM	POWER QUALITY MONITOR
PVC	POLYVINYL CHLORIDE
PTW	POWER, TELEPHONE, AND WATER
RECEPT	RECEPTACLE
RGS	RIGID GALVANIZED STEEL
SS	STAINLESS STEEL
SCE	SOUTHERN CALIFORNIA EDISON
SP	SEWER PIT
SUB	SUBSTATION
SW	SWITCH
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
SYM	SYMMETRICAL
T	TRIP
TDB	TO BE DETERMINED
TYP	TYPICAL
UG	UNDERGROUND
U.O.N.	UNLESS OTHERWISE NOTED
V	VOLTMETER, VOLT
VFI	VACUUM FAULT INTERRUPTER
VP	VAPORPROOF
VT	VOLTAGE TRANSFORMER
WP	WEATHERPROOF
W/	WITH
W/O	WITH OUT
XFMR	TRANSFORMER
Ω	OHMS

AS-BUILT CONDITIONS ILLUSTRATED ON THESE PLANS REFLECT INFORMATION PROVIDED BY THE CONTRACTOR AND THE PIER T CONSTRUCTION MANAGER AND DRAFTED BY P2S. P2S DID NOT VERIFY THE AS-BUILT CONDITIONS AND DOES NOT WARRANTY THE ACCURACY THEREOF.

FN: D1903E01

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Long Beach, California www.p2seng.com

kpff Consulting Engineers

400 Oceangate, Suite 320
Long Beach, CA 90802
(562) 437-9100 Fax:(562) 437-9200

MARK	DATE	BY	REVISIONS
	9/5/08	KLP	AS-BUILT

DRAWN J.G.U.	DATE 03/06	ASST CHIEF HARBOR ENGR. P.E. NO. C-25677	DATE
DESIGNED C.J.C.	P.E. NO.		
PROJ. MGR. A.S.	P.E. NO.		
SECT. HEAD D.J.S.	P.E. NO. C-46837	CHIEF HARBOR ENGINEER P.E. NO. C-43065	DATE

THE PORT OF LONG BEACH

925 HARBOR PLAZA P.O. BOX 570 LONG BEACH CALIFORNIA 90801 TEL. (562) 437-0041

PIER T MARINE TERMINAL
PHASE 3 CONTAINER YARD EXPANSION
LEGEND AND ABBREVIATIONS

SCALE AS SHOWN	SHEET 96 OF 150
SPECIFICATION NUMBER	HD-S2281
DRAWING NUMBER	HD 10-1903-E1

GENERAL NOTES

- FURNISH AND INSTALL ALL CONDUITS, WIRES, BOXES, SWITCHES, LIGHT FIXTURES (WITH LAMPS), POLE FOUNDATIONS, RECEPTACLES, DEVICES, PANELBOARDS AND OTHER EQUIPMENT SHOWN ON THE DRAWINGS AND AS REQUIRED FOR A COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM.
- ALL WORK SHALL COMPLY WITH THE 2004 EDITION OF THE CALIFORNIA ELECTRICAL CODE AND ALL OTHER APPLICABLE FEDERAL, STATE NATIONAL AND LOCAL CODES. WHERE THE PLANS SHOW MORE RESTRICTIVE REQUIREMENTS, THE PLANS SHALL GOVERN. BUT NOTHING ON THESE PLANS SHALL BE INTERPRETED AS AUTHORITY TO VIOLATE ANY CODE OR REGULATION. WHEN REFERENCES ARE MADE TO SPECIFIC CODE SECTIONS, STANDARDS, GUIDE AND OTHER SIMILAR REFERENCES, THEY ARE INTENDED TO ADD EMPHASIS TO THE REQUIREMENTS OF THAT PARTICULAR REFERENCE, AND ARE NOT INTENDED IN ANY WAY TO RELIEVE THE CONTRACTOR OF THE REMAINING REFERENCES.
- IN THE EVENT OF A CONFLICT OR INCONSISTENCY BETWEEN ITEMS INDICATED ON THE PLANS AND/OR SPECIFICATIONS OR WITH CODE REQUIREMENTS, THE NOTE, SPECIFICATION OR CODE WHICH PRESCRIBES AND ESTABLISHES THE MORE COMPLETE JOB OR THE HIGHER STANDARD SHALL PREVAIL.
- THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND ALL FEES. UNLESS OTHERWISE NOTED.
- THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC AND DO NOT SHOW ALL OFFSETS, BENDS, FITTINGS, JUNCTION BOXES, PULL BOXES AND EXPANSION FITTINGS REQUIRED TO MEET FIELD CONDITIONS. DETERMINE ACTUAL MATERIAL AND HARDWARE REQUIREMENTS AND VERIFY ALL DIMENSIONS EXISTING EQUIPMENT AND STRUCTURAL MEMBER LOCATIONS BY FIELD INSPECTION.
- VERIFY EXISTING SITE CONDITIONS, REQUIREMENTS AND EXACT LOCATIONS OF UTILITIES BEFORE SUBMITTING BID.
- SUBMIT SHOP DRAWINGS AND CATALOG CUTS FOR ALL SWITCHBOARDS, PANELBOARDS, PULL BOXES TRANSFORMERS, LIGHT FIXTURES AND POLES IN ACCORDANCE WITH THE SPECIFICATIONS.
- PROVIDE A SET OF AS-BUILT DRAWINGS SHOWING THE LOCATIONS OF ALL UNDERGROUND CONDUITS AND INDICATING ALL CHANGES MADE DURING CONSTRUCTION AND ANY DEVIATIONS FROM THE ELECTRICAL DRAWINGS IN ACCORDANCE WITH THE SPECIFICATIONS.
- ALL MATERIALS AND EQUIPMENT SHALL BE U.L. LISTED AND LABELED AND SHALL BE INSTALLED IN THE MANNER FOR WHICH THEY ARE DESIGNED AND APPROVED.
- ALL CIRCUIT BREAKERS, FUSES AND ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRUPTING RATING NOT LESS THAN THE MAXIMUM SYMMETRICAL SHORT CIRCUIT CURRENT TO WHICH THEY MAY BE SUBJECTED.

- UNLESS OTHERWISE NOTED ALL DEVICES AND EQUIPMENT INSTALLED OUTSIDE OR IN DAMP LOCATIONS SHALL BE WEATHERPROOF WITH MARINE GRADE, CORROSION RESISTANT FINISH. THE FINISH FOR OUTDOOR, WEATHERPROOF, NEMA 3R ENCLOSURES, SHALL HAVE ALL COVERS AND DOORS THOROUGHLY CLEANED USING A PHOSPHATE WASH. APPLY A ZINC RICH CORROSION RESISTANT PRIMER AND THEN A POLYESTER POWDER COAT SUITABLE FOR MARINE ENVIRONMENT. EXTERIOR SURFACES SHALL BE GIVEN A FINAL FINISH COAT ON ANSI 61 LIGHT GREY AIR-DRIED ACRYLIC ENAMEL, COVERED WITH A CLEAR POLYURETHANE TOP COAT.
- PROVIDE TYPEWRITTEN DIRECTORY CARD IN EACH PANEL. IDENTIFY LOAD SERVED BY EACH CIRCUIT BREAKER. PROVIDE LAMINATED PLASTIC NAMEPLATES TO IDENTIFY ALL LOADS SERVED BY SWITCHGEAR AND DISTRIBUTION PANELS. IN ADDITION TO CODE REQUIRED NAMEPLATES, CONTRACTOR SHALL PROVIDE PORT OF LONG BEACH IDENTIFYING NAMEPLATE INFORMATION, PRINTED ON AN APPROPRIATE SURFACE AND SHALL BE INSTALLED INSIDE THE SWITCHBOARD/PANELBOARD WITH THE FOLLOWING INFORMATION:

PORT OF LONG BEACH
PANEL xxxxx (NAME OF PANELBOARD)
HD-S2281
HD 10-1903
CONTACT MANUFACTURER: (NAME OF PERSON MOST FAMILAR BY MANUFACTURER, AND TELEPHONE NUMBER)
DATE: xx/xx/xx (CONTRACTOR'S NOTICE TO PROCEED DATE)

- FURNISH AND INSTALL TEMPORARY POWER AND LIGHTING REQUIRED FOR CONSTRUCTION.
- MAKE POWER CONNECTIONS TO AND EQUIPMENT FURNISHED BY OTHERS. PROVIDE SUPPORT FOR ALL ELECTRICAL EQUIPMENT TO COMPLY WITH THE SEISMIC REQUIREMENTS OF THE UNIFORM BUILDING CODE AND ALL LOCAL ORDINANCES.
- INSTALL ALL CONDUITS AND WIRES WITH A MINIMUM NUMBER OF BENDS AND IN SUCH A MANNER AS TO CONFORM TO THE STRUCTURE, AVOID OBSTRUCTIONS, PRESERVE HEAD ROOM KEEP OPENINGS AND PASSAGEWAYS CLEAR AND MEET ALL STRUCTURAL CODE REQUIREMENTS.
- DO NOT BORE, NOTCH OR IN ANY WAY CUT INTO ANY STRUCTURAL MEMBER WITHOUT WRITTEN APPROVAL FROM THE ENGINEER.
- THE ENTIRE ELECTRICAL INSTALLATION SHALL BE GROUNDED AS REQUIRED BY ALL APPLICABLE CODES AND THE SERVING UTILITY.
- THE ENTIRE WIRING SYSTEM SHALL BE TESTED FOR CONTINUITY AND INSULATION RESISTANCE.
- TEST THE ELECTRICAL INSTALLATION IN ACCORDANCE WITH THE SPECIFICATIONS.
- NEC 2002 ARTICLE 110.16 REQUIRES FLASH PROTECTION. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ARC FLASH CALCULATIONS IN ACCORDANCE WITH IEEE STD. 1584, STAMPED AND SIGNED BY A LICENSED ELECTRICAL ENGINEER IN THE STATE OF CALIFORNIA. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE LABELS FOR ARC FLASH AND SHOCK HAZARD, ATTACHED TO EACH EQUIPMENT, IN ACCORDANCE WITH THE CODE.
- CONDUIT THAT IS TO BE ABANDONED SHALL HAVE WIRES REMOVED. THE CONDUIT ENDS SHALL BE REMOVED. THE CONDUIT ENDS SHALL BE REMOVED TO A DEPTH OF AT LEAST 30" BELOW THE FINISHED SURFACE. BOTH ENDS OF ABANDONED CONDUITS SHALL BE CAPPED WITH CONCRETE.
- CONTRACTOR SHALL BE RESPONSIBLE TO PERFORM TESTING OF THE GROUND-Fault PROTECTION SYSTEM AFTER INSTALLED ON SITE, IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE SECTION 230.95(c). A WRITTEN RECORD OF THIS TEST SHALL BE MADE AND SHALL BE SUBMITTED TO ENGINEER.
- WHEN REFERENCES ARE MADE TO SPECIFIC CODE SECTIONS, STANDARDS, GUIDELINES AND OTHER SIMILAR REFERENCES, THEY ARE INTENDED TO ADD EMPHASIS TO THE REQUIREMENTS OF THAT PARTICULAR REFERENCE, AND IS NOT INTENDED IN ANY WAY TO RELIEVE THE CONTRACTOR OF THE REMAINING APPLICABLE REFERENCES.
- CONTRACTOR SHALL SUBMIT SHORT CIRCUIT AND COORDINATION STUDY ON THE ELECTRICAL SYSTEM.
- CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE CONCRETE PAD FOR ALL ELECTRICAL EQUIPMENT. EQUIPMENT CONCRETE PAD SHALL BE SIZED BY A LICENSED STRUCTURAL ENGINEER IN THE STATE OF CALIFORNIA. FINAL DIMENSIONS SHALL BE BASED ON APPROVED EQUIPMENT.

REFERENCE DRAWINGS:

- | | |
|------------|---------------------------------------------------------------------------------------------|
| HD 10-1640 | PIER T MARINE TERMINAL
BERTHS T132 - T134 UTILITIES
& CONTAINER YARD (HD-S2110) |
| HD 10-1439 | PIER T MARINE TERMINAL
BERTHS T134 - T140 CONTAINER
YARD & INTERMODAL YARD (HD-S1983) |

Project:	Pier T Phase 3 Container Yard	Page:	3
Location:	POLB Pier T Terminal	Date:	02-20-2006
Contract:	HD-S2281	SN:	P2S-ENGIN
Engineer:	Name of Engineer	Revision:	Base
Filename:	ArchFlash	Study Case:	SC
Config.:	Normal		

Arc Fault at Bus: **Bus5**

Bolted Fault Current: **1/2 Cycle**

Nominal kV = 0.480	Prefault Voltage = 100% of nominal bus kV	
Base kV = 0.480	= 100% of base kV	System Grounding = Grounded

Total Arcing Fault Current = 24.036 kA	FCT = 0.100 Seconds
Total Bolted Fault Current = 39.761 kA	= 6.000 Cycles

Working Distance = 18.00 inch	Hazard/Risk Category* = 3
Incident Energy = 9.22 Cal/cm²	Flash Protection Boundary = 4.16 ft

Device		Individual Contribution			Incident Energy					
ID	Type	Bolted (kA)	Arcing (kA)	FCT (Cycles)	Arcing (kA)	FCT (Cycles)	Protective Device ID for FCT	Incident E (Cal/cm²)	FPB (ft)	Hazard/Risk Category
CB3	LV CB	0.624	0.377		24.036	6.0		9.219	4.2	3

NOTES:

- THIS IS A SAMPLE REPORT, SHOWING THE MINIMUM DATA AS A RESULT OF ARC FLASH CALCULATIONS IN ACCORDANCE WITH IEEE STD. 1584.
- CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE THIS DATA AND SUPPORTING CALCULATIONS, PRIOR TO SUBMITTING LABELS FOR ARC FLASH WARNING.



ARC FLASH CALCULATION RESULTS-TYP
SCALE: NTS

DANGER

Arc Flash and Shock Hazard

Flash Protection Boundary: 3.7 ft

Incident Energy: 7.4 Cal/cm²

Working Distance: 18 in

Required PPE Level: 2

Shock Hazard Voltage: 480 VAC

Limited Approach: 10.0 ft

Restricted Approach: 1.0 ft

Prohibited Approach: 0.1 ft

Equip. ID: **Swbd 19**

POLB SPEC NO.: HD-S2281

POLB DWG NO.: HD 10-1903

LOCATION: PIER T TERMINAL

NOTES:

- CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE LABELS, COMPLETE WITH DATA BASED AND SUPPORTED BY CALCULATIONS, AND MOUNT TO APPROPRIATE EQUIPMENT.
- SUBMIT PROPOSED LABELS TO THE CITY AND OBTAIN APPROVAL OF THE CITY, PRIOR TO RELEASING ORDER TO LABEL MANUFACTURER.



ARC FLASH LABEL-TYP
SCALE: NTS

MARK	DATE	BY	AS-BUILT REVISIONS
	9/5/08	KLP	

DRAWN	J.G.U.	DATE	03/06
DESIGNED	C.J.C.	P.E. NO.	
PROJ. MGR	A.S.	P.E. NO.	
SECT. HEAD	D.J.S.	P.E. NO.	C-46837

ASST' CHIEF HARBOR ENGR.	P.E. NO.	C-25677	DATE	
CHIEF HARBOR ENGINEER	P.E. NO.	C-43065	DATE	



THE PORT OF LONG BEACH

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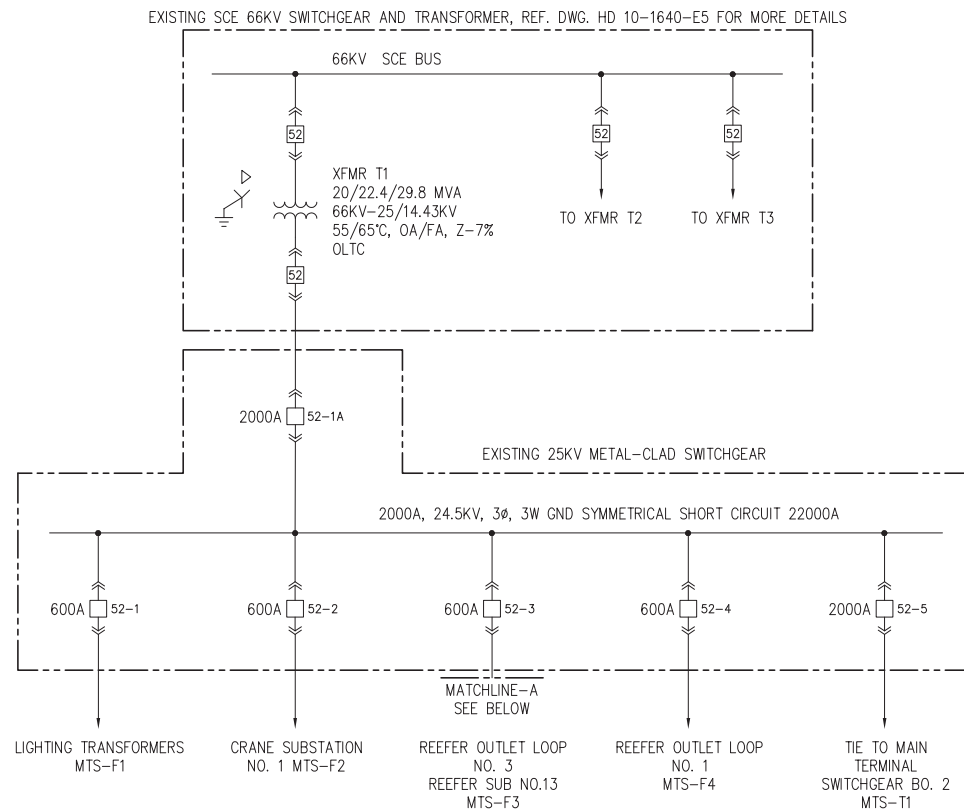
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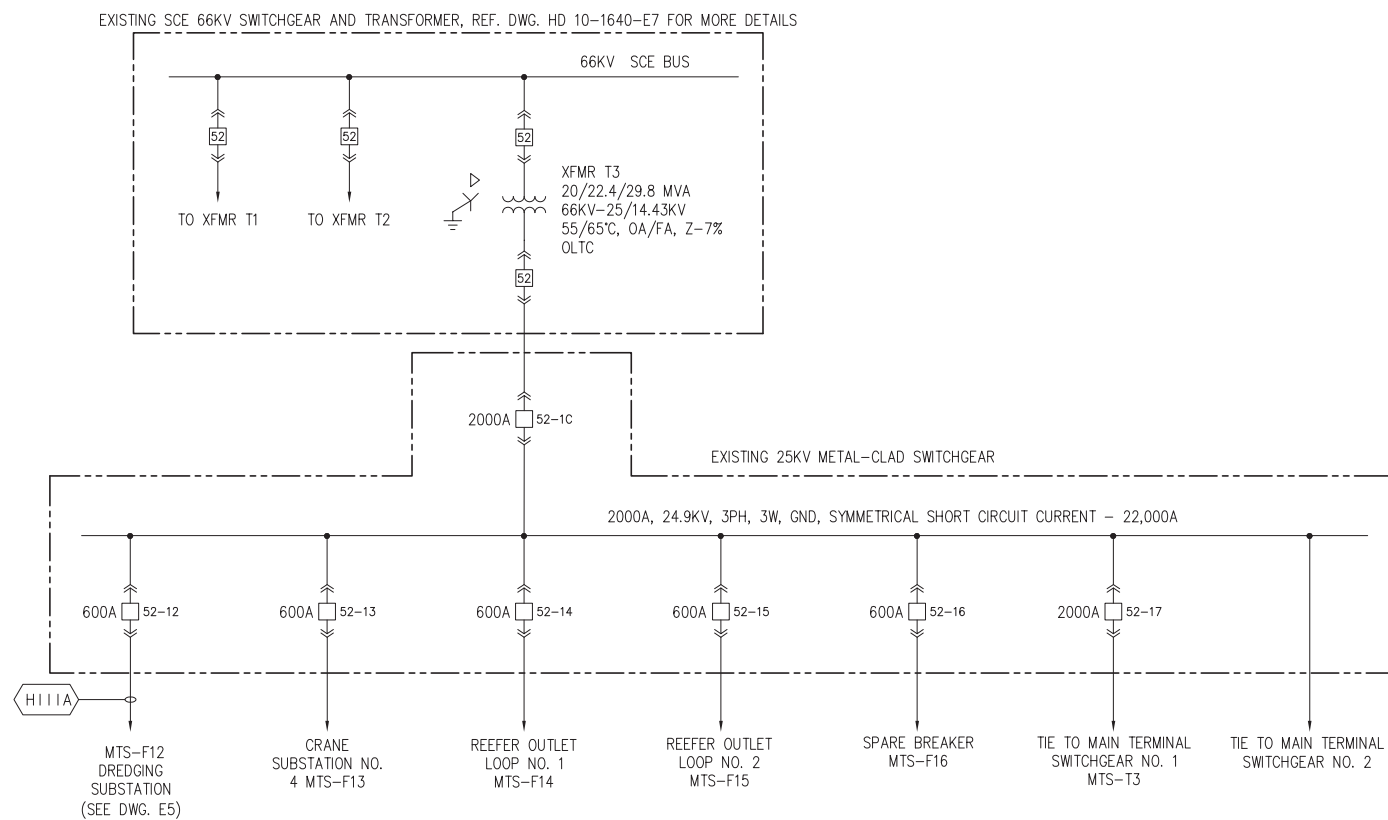
PIER T MARINE TERMINAL
PHASE 3 CONTAINER YARD EXPANSION
GENERAL NOTES

SCALE AS SHOWN	SHEET 97 OF 150
SPECIFICATION NUMBER	HD-S2281
DRAWING NUMBER	HD 10-1903-E2

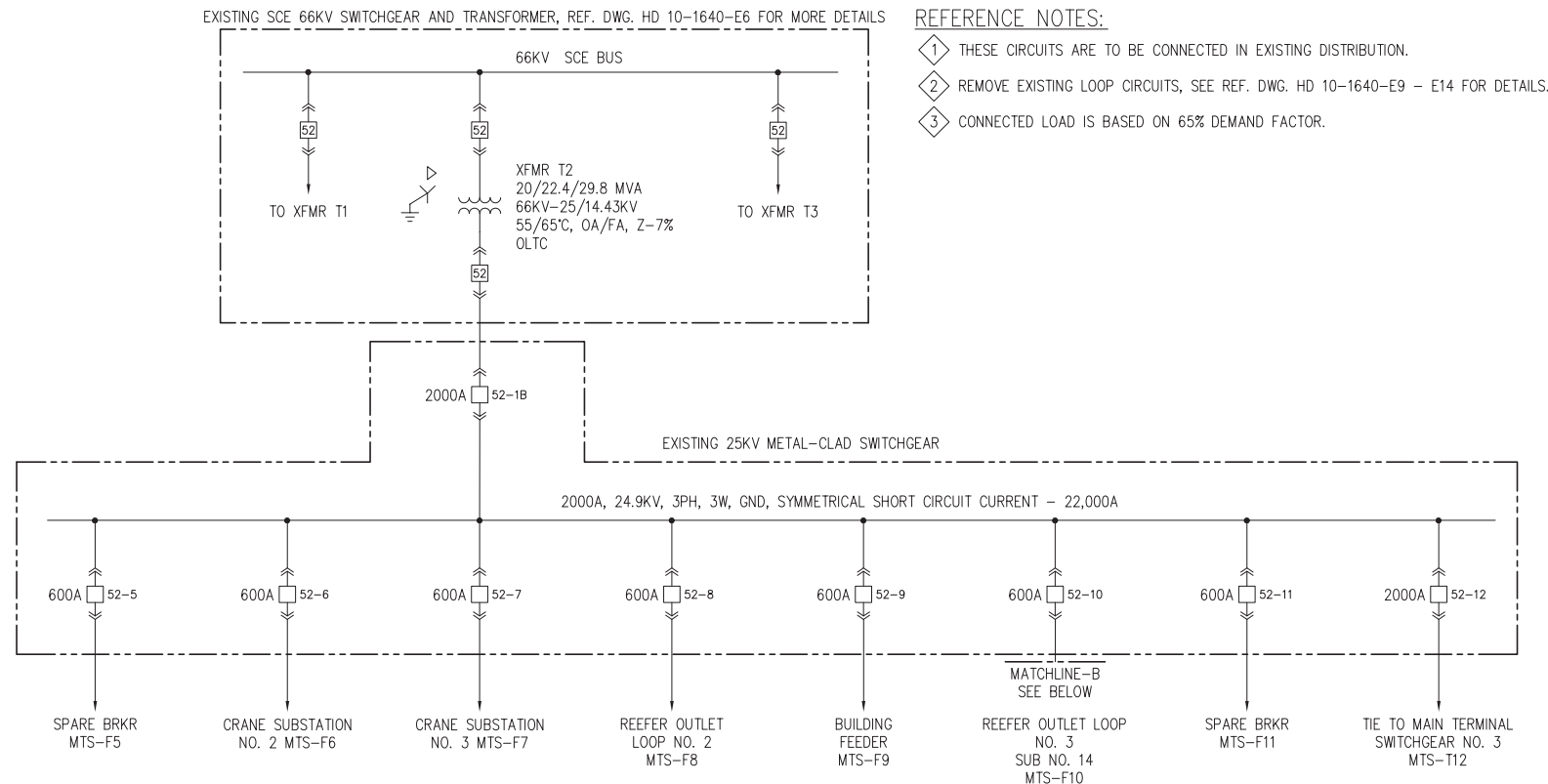
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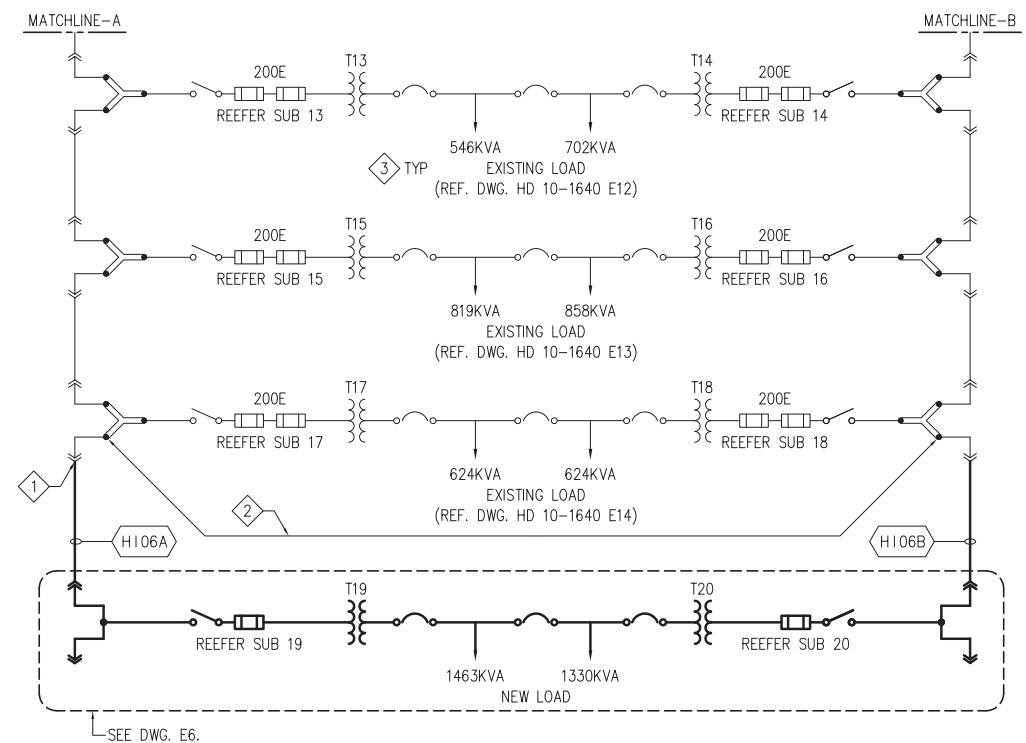
SWITCHGEAR NO. 1



SWITCHGEAR NO. 3



SWITCHGEAR NO. 2



LOOP NO. 3

REFERENCE NOTES:

- 1 THESE CIRCUITS ARE TO BE CONNECTED IN EXISTING DISTRIBUTION.
- 2 REMOVE EXISTING LOOP CIRCUITS, SEE REF. DWG. HD 10-1640-E9 - E14 FOR DETAILS.
- 3 CONNECTED LOAD IS BASED ON 65% DEMAND FACTOR.

MARK	DATE	BY	REVISIONS
9/5/08	KLP		AS-BUILT
			REVISIONS

DRAWN	J.G.U.	DATE	03/06
DESIGNED	C.J.C.	P.E. NO.	
PROJ. MGR.	A.S.	P.E. NO.	
SECT. HEAD	D.J.S.	P.E. NO.	C-46837

ASST CHIEF HARBOR ENGR.	P.E. NO.	C-25677	DATE	
CHIEF HARBOR ENGINEER	P.E. NO.	C-43065	DATE	

AS-BUILT CONDITIONS ILLUSTRATED ON THESE PLANS REFLECT INFORMATION PROVIDED BY THE CONTRACTOR AND THE PIER T CONSTRUCTION MANAGER AND DRAFTED BY P2S. P2S DID NOT VERIFY THE AS-BUILT CONDITIONS AND DOES NOT WARRANTY THE ACCURACY THEREOF.



THE PORT OF LONG BEACH

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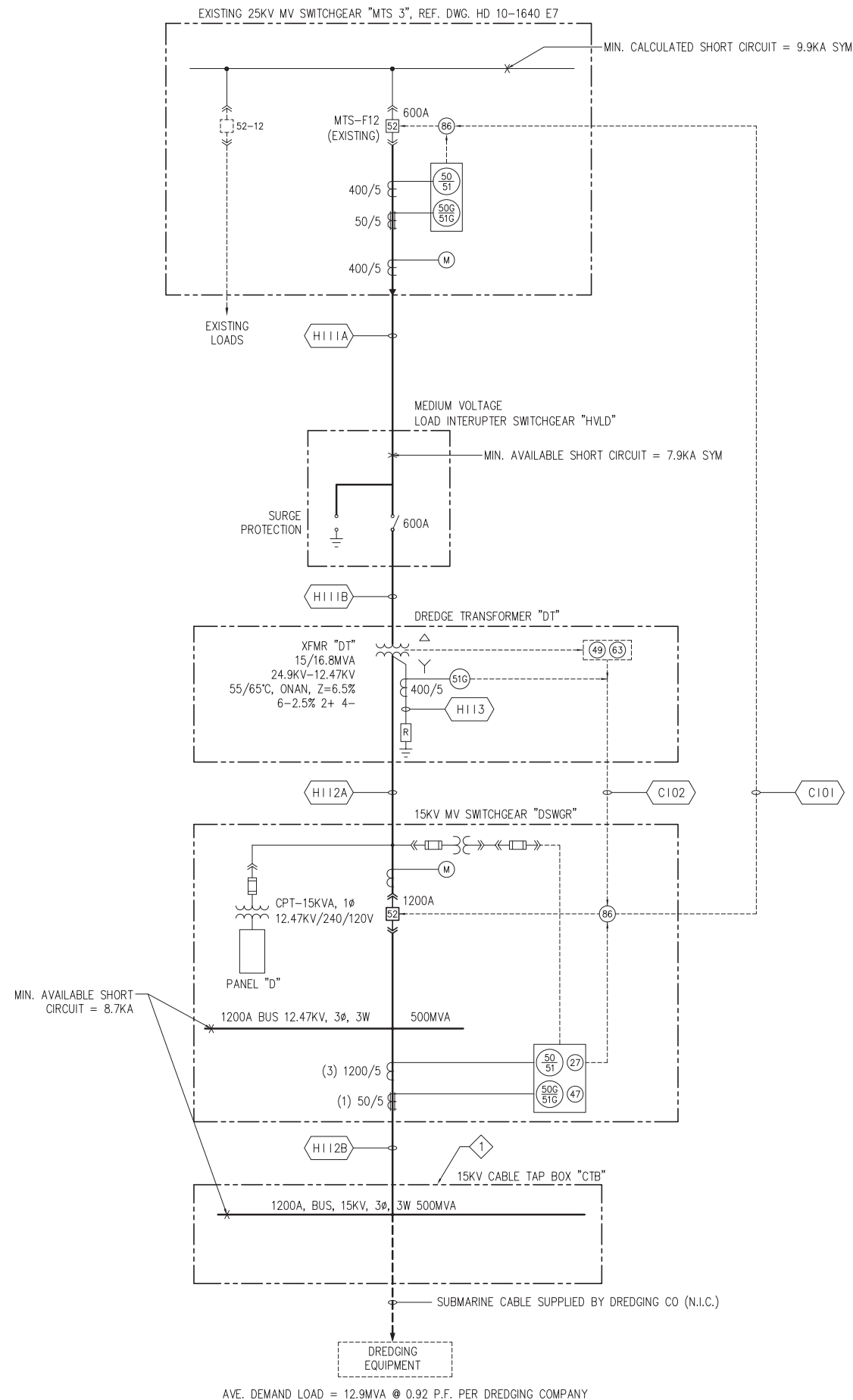
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400 Oceangate, Suite 320
Long Beach, CA 90802
(562) 437-9100 Fax: (562) 437-9200

PIER T MARINE TERMINAL
PHASE 3 CONTAINER YARD EXPANSION
MAIN TERMINAL SWITCHGEAR ONE-LINE

SCALE
AS SHOWN SHEET 99 OF 150
SPECIFICATION
NUMBER HD-S2281
DRAWING
NUMBER HD 10-1903-E4



- GENERAL NOTES:
1. REFER TO DWG E1 FOR LEGEND AND ABBREVIATIONS.
 2. REFER TO DWGS. E26 FOR DREDGE CONNECTION POINT PLAN AND ELEVATION.
 3. UNLESS NOTED OTHERWISE, ALL EQUIPMENT AND DEVICES INCLUDING SWITCHBOARD SHALL BE RATED FOR OUTDOOR MARINE USE.

- REFERENCE NOTES:
- 1 15KV, 1200A SILVER PLATED COPPER, 3Ø, 3W & GND, 18KAIC MIN, RSE-SIERRA GASKETED NEMA 3R CABLE TAP BOX WITH HEATERS, HUMIDISTAT AND THERMOSTAT AND SHALL BE WIRED TO PANEL D, CKT. #2, REFER TO DWG. E36 FOR PANEL SCHEDULE.

AS-BUILT CONDITIONS ILLUSTRATED ON THESE PLANS REFLECT INFORMATION PROVIDED BY THE CONTRACTOR AND THE PIER T CONSTRUCTION MANAGER AND DRAFTED BY P2S. P2S DID NOT VERIFY THE AS-BUILT CONDITIONS AND DOES NOT WARRANTY THE ACCURACY THEREOF.

FN: D1903E05

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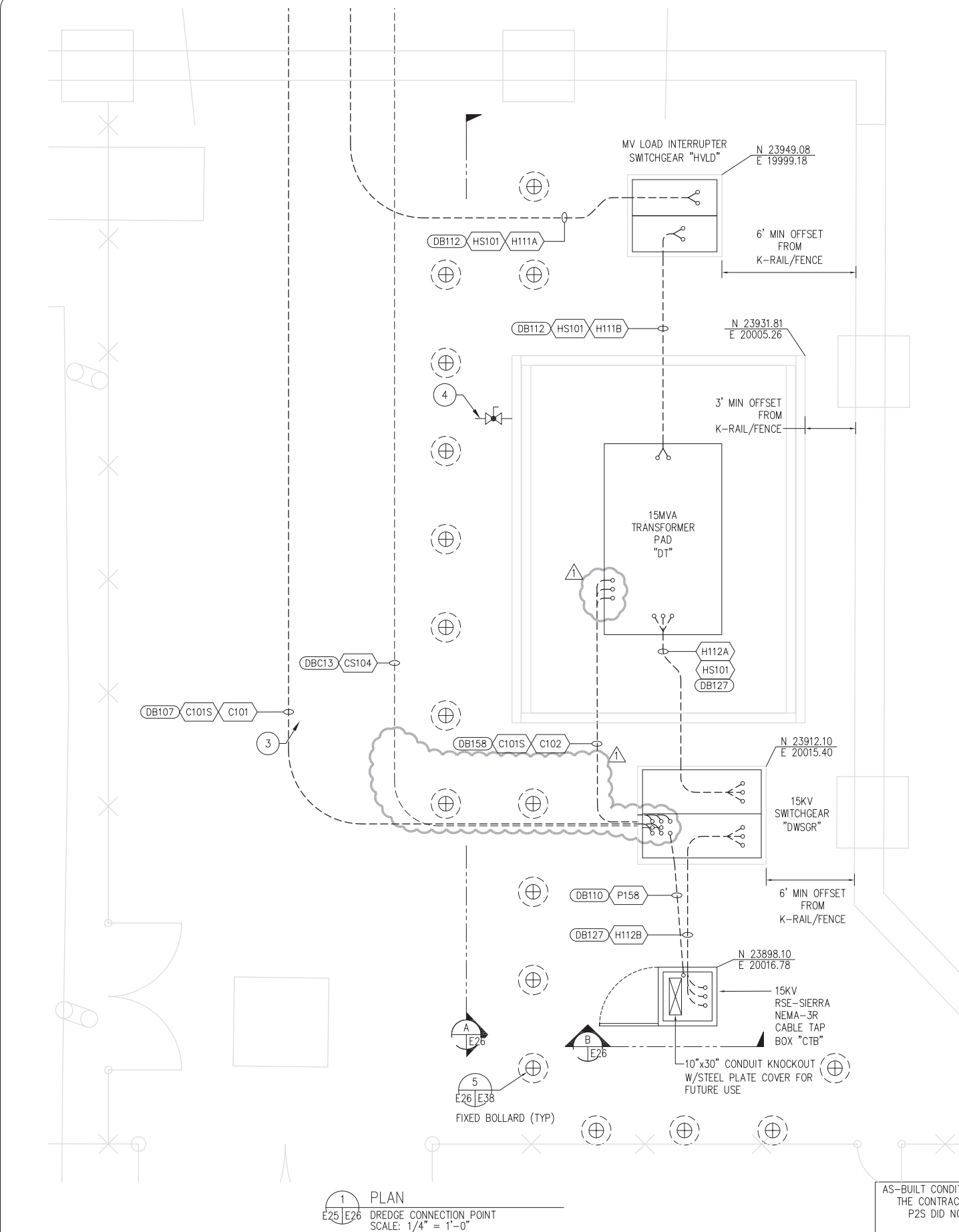
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400 Oceangate, Suite 320
Long Beach, CA 90802
(562) 437-9100 Fax: (562) 437-9200

THE PORT OF LONG BEACH
925 HARBOR PLAZA P.O. BOX 570 LONG BEACH CALIFORNIA 90801 TEL. (562) 437-0041

PIER T MARINE TERMINAL
PHASE 3 CONTAINER YARD EXPANSION
DREDGE CONNECTION POINT "DCP" SINGLE LINE DIAGRAM

SCALE
AS SHOWN SHEET 100 OF 150
SPECIFICATION NUMBER HD-S2281
DRAWING NUMBER HD 10-1903-E5

MARK	DATE	BY	REVISIONS
9/5/08	KLP	AS-BUILT	
DESIGNED	J.G.U.	DATE	03/06
PROJ. MGR.	C.J.C.	P.E. NO.	
SECT. HEAD	D.J.S.	P.E. NO.	C-46837
ASST CHIEF HARBOR ENGR.	P.E. NO.	C-25677	DATE
CHIEF HARBOR ENGINEER	P.E. NO.	C-43065	DATE



MARK	9/5/08	KLP	AS-BUILT
DATE	DATE	BY	REVISIONS

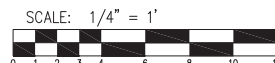
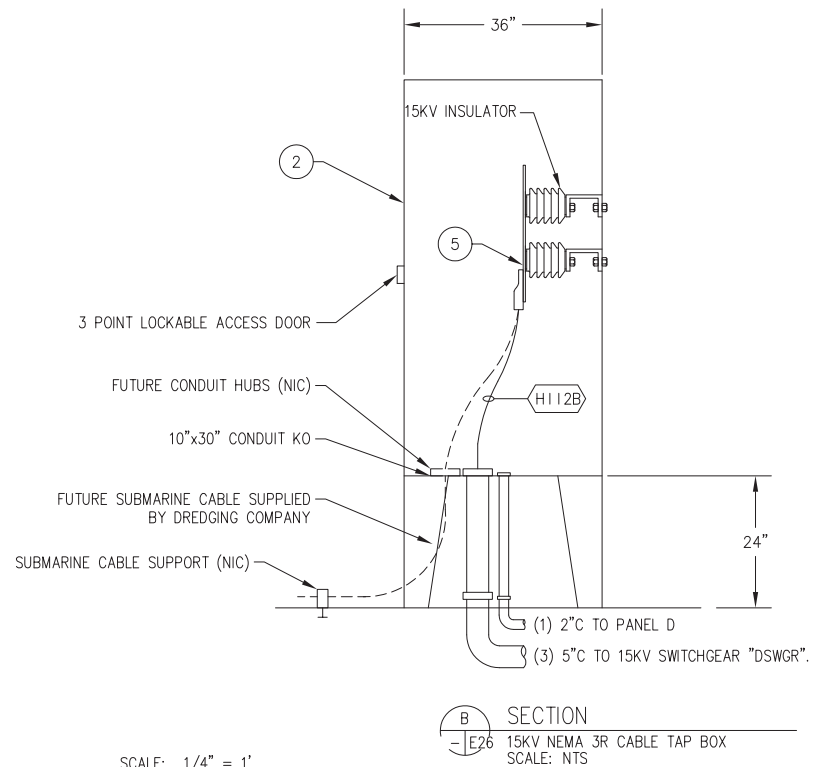
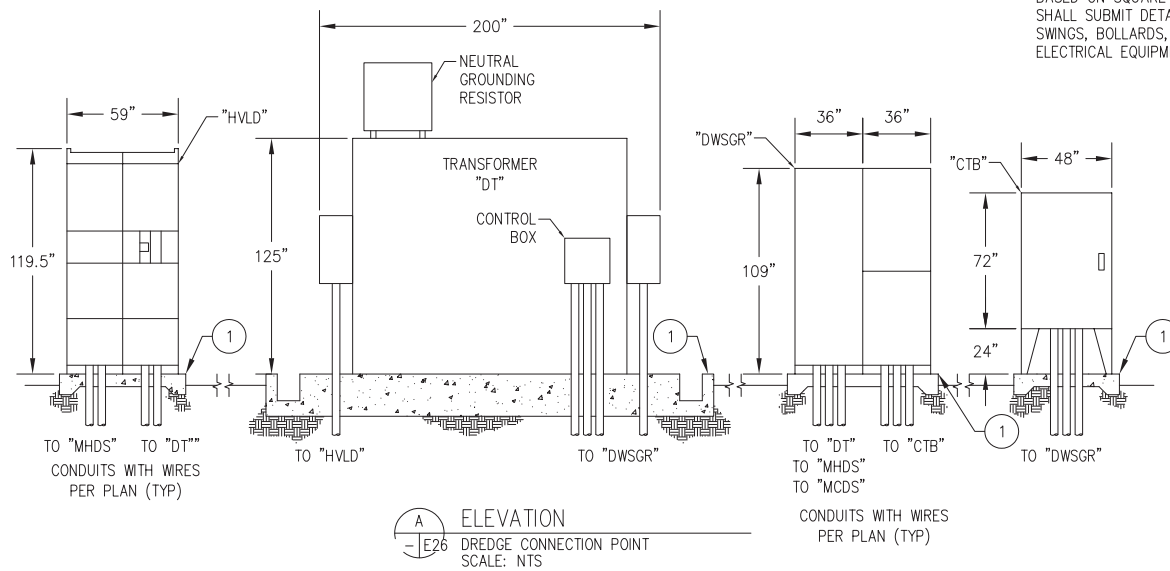
DRAWN	J.G.U.	DATE	03/06
DESIGNED	C.J.C.	P.E. NO.	
PROJ. MGR.	A.S.	P.E. NO.	
SECT. HEAD	D.J.S.	P.E. NO.	C-46837
ASST. CHIEF HARBOR ENGR.	P.E. NO.	C-25677	DATE
CHIEF HARBOR ENGINEER	P.E. NO.	C-43065	DATE

AS-BUILT CONDITIONS ILLUSTRATED ON THESE PLANS REFLECT INFORMATION PROVIDED BY THE CONTRACTOR AND THE PIER T CONSTRUCTION MANAGER AND DRAFTED BY P2S. P2S DID NOT VERIFY THE AS-BUILT CONDITIONS AND DOES NOT WARRANTY THE ACCURACY THEREOF.



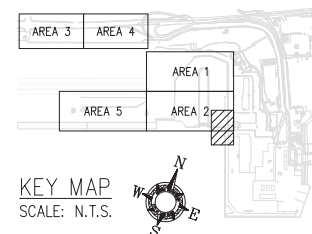
CONSTRUCTION NOTES:

- SEE DWG. E2, NOTE 25 AND DWG. P6 FOR DETAILS.
- 15KV, 1200A SILVER PLATED COPPER, 3Ø, 3W & GND, 18KAIC MIN, RSE-SIERRA GASKETED NEMA 3R CABLE TAP BOX OR APPROVED EQUAL WITH HEATERS, HUMIDISTAT AND THERMOSTAT AND SHALL BE WIRED TO PANEL D, CKT. #2. SEE PANEL SCHEDULE DWG. E36. CABLE TAP BOX SHALL BE UL LISTED.
- FOR CABLE ROUTING SEE DWG. E39.
- FOR VALVE AND PIPE INFORMATION, SEE DWG. P6.
- 15KV BUS SHALL BE FULLY INSULATED AND DESIGNED TO ACCOMMODATE 750 KCMIL 15KV CABLE, SIX (6) CONDUCTORS PER PHASE THAT INCLUDES SUBMARINE CABLES.



GENERAL NOTES:

- REFER TO DWG. E1 FOR LEGEND AND ABBREVIATIONS.
- CONTRACTOR SHALL COORDINATE PLACEMENT OF DUCTBANKS WITH LOCATION OF BOLLARDS TO AVOID CONFLICTS.
- CONTRACTOR SHALL VERIFY EQUIPMENT CONDUIT LOCATIONS.
- CONTRACTOR SHALL PROVIDE EQUIPMENT TO MAINTAIN FEEDER CODE CLEARANCES.
- REFER TO DWG. E5 FOR ONE LINE DIAGRAM.
- UNLESS OTHERWISE NOTED DIMENSIONS SHOWN ARE BASED ON SQUARE D EQUIPMENT. THE CONTRACTOR SHALL SUBMIT DETAIL DRAWINGS SHOWING PANELS, DOOR SWINGS, BOLLARDS, BURIED CONDUIT, DUCTBANKS, AND ELECTRICAL EQUIPMENT FOR THE EQUIPMENT SUPPLIED.



FN: D1903E26



400 Oceangate, Suite 320
Long Beach, CA 90802
(562) 437-9100 Fax: (562) 437-9200

PIER T MARINE TERMINAL
PHASE 3 CONTAINER YARD EXPANSION
DREDGE CONNECTION POINT PLAN AND ELEVATION

SCALE	AS SHOWN	SHEET	121	OF	150
SPECIFICATION	NUMBER	HD-S2281			
DRAWING	NUMBER	HD-10-1903-E26			

